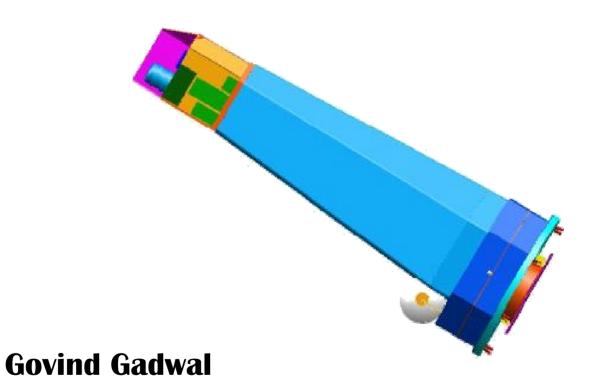


REFERENCE MISSION ARCHITECTURE AND DESIGN



May 1, 2002



Mission Architecture and Design

- Mission Documents for procurement needed in 2003 are under preparation.
 - Constellation-X Top Level Requirements
 - There is a draft document dated July 20, 2000 on the web
 - This document will be rewritten into Level 1 and Level 2 documents.
 - Constellation-X Reference Mission Architecture and Design
 - There is a document base lined on Feb. 25, 2000 known as "Reference Mission Description Document" on the web
 - This document will be revised with updates from the latest configuration.
 - Constellation-X Operations Concept
 - A totally new document planned for preparation.
 - The document covers early operations, routine operations and Design Reference Mission etc..
- Need timely inputs to prepare document by August 30.

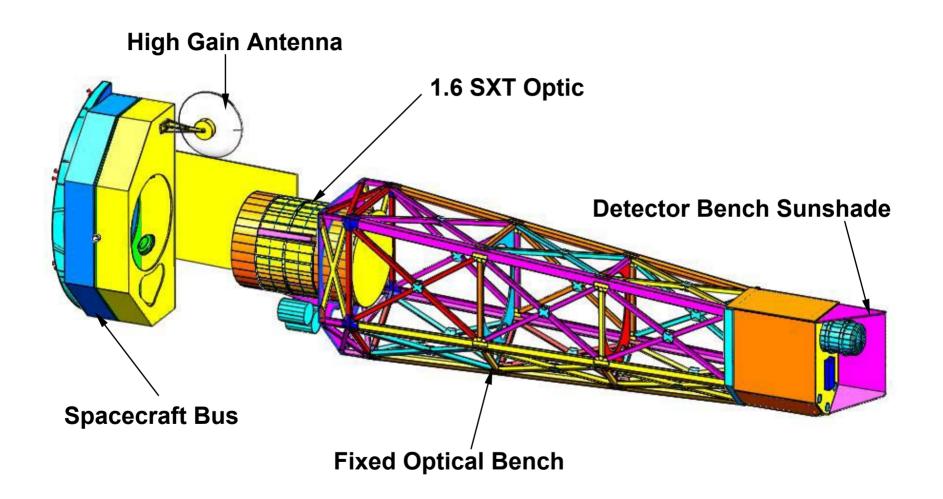


Reference Architecture and Design Updates

- Changed Extendible Optical Bench to Fixed Optical Bench
 - Increases reliability
 - Reduces mass
- Incorporated Segmented SXT optics
- Updated configurations to include impacts due to new top level requirements
 - Imposed new timing requirements
 - Needed 100 microseconds timing accuracy for science.
 - Imposed new bright source requirements
 - Increased mission requirements to 40000 counts per second maximum
 - Imposed new pixel requirements to 1000 counts per second maximum
- Update advances in Instruments, Structures and Subsystems

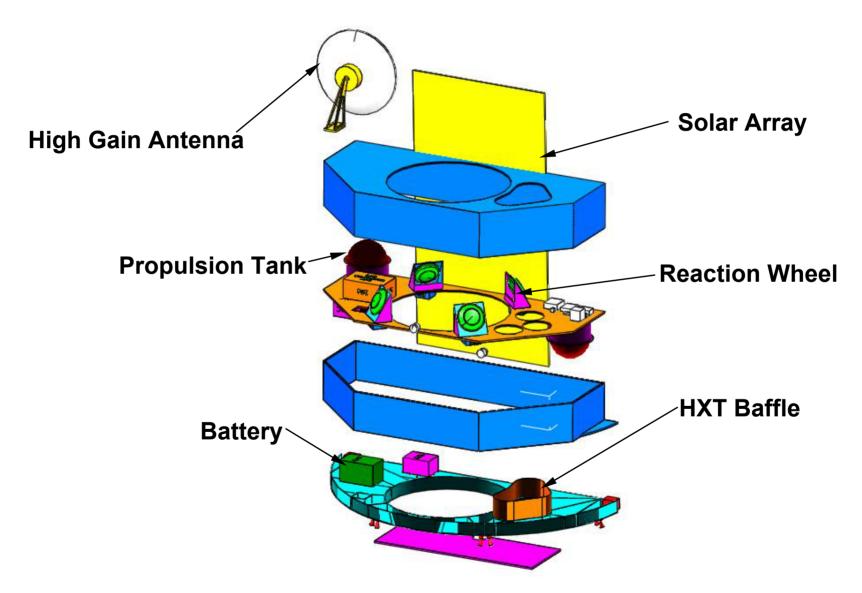


FIXED BENCH CONFIGURATION



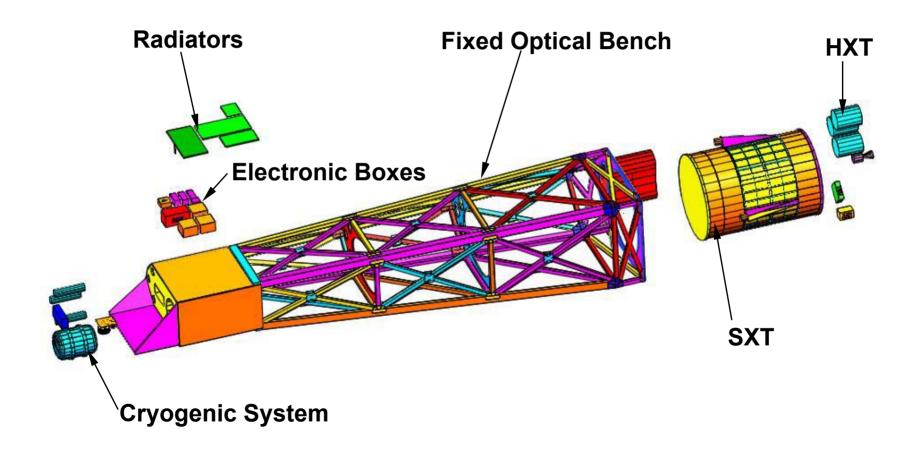


SPACECRAFT MODULE





INSTRUMENT MODULE



May 1, 2002



Architecture and Design Document Plans

Kickoff MeetingFeb. 27

Subsystem Inputs
 April 26

Instrument Input#1 May 10

System InputsMay 31

Subsystem Comments June 14

Instrument Input#2 June 28

Draft Document July 12

Project Comments August 2

Baseline Document August 30